

CATEGORY 8 - MARINE**A. “END ITEMS,” “EQUIPMENT,”
“ACCESSORIES,” “ATTACHMENTS,”
“PARTS,” “COMPONENTS,” AND
“SYSTEMS”**

8A001 Submersible vehicles and surface vessels, as follows (see List of Items Controlled).

License Requirements

Reason for Control: NS, AT

<i>Control(s)</i>	<i>Country Chart (See Supp. No. 1 to part 738).</i>
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NS applies to entire entry	NS Column 2
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AT applies to entire entry	AT Column 1
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Reporting Requirements

See § 743.1 of the EAR for reporting requirements for exports under License Exceptions, Special Comprehensive Licenses, and Validated End-User authorizations.

List Based License Exceptions (See Part 740 for a description of all license exceptions)

LVS: \$5000; N/A for 8A001.b and .d

GBS: N/A

CIV: N/A

Special Conditions for STA

STA: License Exception STA may not be used to ship any commodity in 8A001.b, 8A001.c or 8A001.d to any of the destinations listed in Country Group A:6 (See Supplement No.1 to part 740 of the EAR).

List of Items Controlled

Related Controls: For the control status of equipment for submersible vehicles, see: Category 5, Part 2 “Information Security” for encrypted communication equipment; Category 6 for sensors; Categories 7 and 8 for navigation equipment; Category 8A for underwater equipment.

Related Definitions: N/A

Items:

a. Manned, tethered submersible vehicles designed to operate at depths exceeding 1,000 m;

b. Manned, untethered submersible vehicles having any of the following:

b.1. Designed to ‘operate autonomously’ and having a lifting capacity of all the following:

b.1.a. 10% or more of their weight in air; *and*

b.1.b. 15 kN or more;

b.2. Designed to operate at depths exceeding 1,000 m; *or*

b.3. Having all of the following:

b.3.a. Designed to continuously ‘operate autonomously’ for 10 hours or more; *and*

b.3.b. ‘Range’ of 25 nautical miles or more;

Technical Notes:

1. For the purposes of 8A001.b, ‘operate autonomously’ means fully submerged, without snorkel, all systems working and cruising at minimum speed at which the submersible can safely control its depth dynamically by using its depth planes only, with no need for a support

vessel or support base on the surface, sea-bed or shore, and containing a propulsion system for submerged or surface use.

2. *For the purposes of 8A001.b, ‘range’ means half the maximum distance a submersible vehicle can ‘operate autonomously’.*

c. Unmanned, tethered submersible vehicles designed to operate at depths exceeding 1,000 m and having any of the following:

c.1. Designed for self-propelled maneuver using propulsion motors or thrusters controlled by 8A002.a.2; *or*

c.2. Fiber optic data link;

d. Unmanned, untethered submersible vehicles having any of the following:

d.1. Designed for deciding a course relative to any geographical reference without real-time human assistance;

d.2. Acoustic data or command link; *or*

d.3. Optical data or command link exceeding 1,000 m;

e. Ocean salvage systems with a lifting capacity exceeding 5 MN for salvaging objects from depths exceeding 250 m and having any of the following:

e.1. Dynamic positioning systems capable of position keeping within 20 m of a given point provided by the navigation system; *or*

e.2. Seafloor navigation and navigation integration systems, for depths exceeding 1,000 m and with positioning accuracies to within 10 m of a predetermined point;

f. Surface-effect vehicles (fully skirted variety) having all of the following:

f.1. Maximum design speed, fully loaded, exceeding 30 knots in a significant wave height of 1.25 m (Sea State 3) or more;

f.2. Cushion pressure exceeding 3,830 Pa; *and*

f.3. Light-ship-to-full-load displacement ratio of less than 0.70;

g. Surface-effect vehicles (rigid sidewalls) with a maximum design speed, fully loaded, exceeding 40 knots in a significant wave height of 3.25 m (Sea State 5) or more;

h. Hydrofoil vessels with active systems for automatically controlling foil systems, with a maximum design speed, fully loaded, of 40 knots or more in a significant wave height of 3.25 m (Sea State 5) or more;

i. ‘Small waterplane area vessels’ having any of the following:

i.1. Full load displacement exceeding 500 tonnes with a maximum design speed, fully loaded, exceeding 35 knots in a significant wave height of 3.25 m (Sea State 5) or more; *or*

i.2. Full load displacement exceeding 1,500 tonnes with a maximum design speed, fully loaded, exceeding 25 knots in a significant wave height of 4 m (Sea State 6) or more.

Technical Note: A ‘small waterplane area vessel’ is defined by the following formula: *waterplane area at an operational design draft less than $2 \times (\text{displaced volume at the operational design draft})^{2/3}$.*

8A002 Marine systems, equipment, “parts” and “components,” as follows (see List of

Items Controlled).**License Requirements**

Reason for Control: NS, AT

<i>Control(s)</i>	<i>Country Chart</i> (See <i>Supp. No.</i> <i>1 to part 738</i>).
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NS applies to entire entry	NS Column 2
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AT applies to entire entry	AT Column 1
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Reporting Requirements

See § 743.1 of the EAR for reporting requirements for exports under License Exceptions, Special Comprehensive Licenses, and Validated End-User authorizations.

List Based License Exceptions (See Part 740 for a description of all license exceptions)

LVS: \$5000; N/A for 8A002.o.3.b

GBS: Yes for 8A002.e.2 and manipulators for civil end-uses (e.g., underwater oil, gas or mining operations) controlled by 8A002.i.2 and having 5 degrees of freedom of movement; and 8A002.r.

CIV: Yes for 8A002.e.2 and manipulators for civil end-uses (e.g., underwater oil, gas or mining operations) controlled by 8A002.i.2 and having 5 degrees of freedom of movement; and 8A002.r.

Special Conditions for STA

STA: License Exception STA may not be used to ship any commodity in 8A002.b, h, j, o.3, or p to any of the destinations listed in Country Group A:6 (See Supplement No.1 to part 740 of the EAR).

List of Items Controlled

Related Controls: (1) See also [8A992](#) and for underwater communications systems, see Category 5, Part I - Telecommunications). [8A002](#) does not control closed and semi-closed circuit (rebreathing) apparatus that is controlled under [8A018.a](#). (2) See also [8A992](#) for self-contained underwater breathing apparatus that is not controlled by [8A002](#) or released for control by the [8A002.q](#) Note. (3) For electronic imaging systems “specially designed” or modified for underwater use incorporating image intensifier tubes specified by 6A002.a.2.a or 6A002.a.2.b, see 6A003.b.3. (4) For electronic imaging systems “specially designed” or modified for underwater use incorporating “focal plane arrays” specified by 6A002.a.3.g, see 6A003.b.4.c.

Related Definitions: N/A

Items:

a. Systems, equipment, “parts” and “components,” “specially designed” or modified for submersible vehicles and designed to operate at depths exceeding 1,000 m, as follows:

a.1. Pressure housings or pressure hulls with a maximum inside chamber diameter exceeding 1.5 m;

a.2. Direct current propulsion motors or thrusters;

a.3. Umbilical cables, and connectors therefor, using optical fiber and having synthetic strength members;

a.4. “Parts” and “components” manufactured from material specified by ECCN 8C001;

Technical Note: *The objective of 8A002.a.4 should not be defeated by the export of ‘syntactic foam’ controlled by 8C001 when an intermediate stage of manufacture has been performed and it is not yet in its final component*

form.

b. Systems “specially designed” or modified for the automated control of the motion of submersible vehicles controlled by 8A001, using navigation data, having closed loop servo-controls and having any of the following:

b.1. Enabling a vehicle to move within 10 m of a predetermined point in the water column;

b.2. Maintaining the position of the vehicle within 10 m of a predetermined point in the water column; *or*

b.3. Maintaining the position of the vehicle within 10 m while following a cable on or under the seabed;

c. Fiber optic pressure hull penetrators;

d. Underwater vision systems as follows:

d.1. Television systems and television cameras, as follows:

d.1.a. Television systems (comprising camera, monitoring and signal transmission equipment) having a ‘limiting resolution’ when measured in air of more than 800 lines and “specially designed” or modified for remote operation with a submersible vehicle;

d.1.b. Underwater television cameras having a ‘limiting resolution’ when measured in air of more than 1,100 lines;

d.1.c. Low light level television cameras “specially designed” or modified for underwater use and having all of the following:

d.1.c.1. Image intensifier tubes controlled by 6A002.a.2.a; *and*

d.1.c.2. More than 150,000 “active pixels” per solid state area array;

Technical Note: ‘Limiting resolution’ is a measure of horizontal resolution usually expressed in terms of the maximum number of lines per picture height discriminated on a test chart, using IEEE Standard 208/1960 or any equivalent standard.

d.2. Systems “specially designed” or modified for remote operation with an underwater vehicle, employing techniques to minimize the effects of back scatter and including range-gated illuminators or “laser” systems;

e. Photographic still cameras “specially designed” or modified for underwater use below 150 m, with a film format of 35 mm or larger and having any of the following:

e.1. Annotation of the film with data provided by a source external to the camera;

e.2. Automatic back focal distance correction; *or*

e.3. Automatic compensation control “specially designed” to permit an underwater camera housing to be usable at depths exceeding 1,000 m;

f. [RESERVED]

g. Light systems “specially designed” or modified for underwater use, as follows:

g.1. Stroboscopic light systems capable of a light output energy of more than 300 J per flash and a flash rate of more than 5 flashes per second;

g.2. Argon arc light systems “specially designed” for use below 1,000 m;

h. “Robots” “specially designed” for underwater use, controlled by using a dedicated computer and having any of the following:

h.1. Systems that control the “robot” using

information from sensors which measure force or torque applied to an external object, distance to an external object, or tactile sense between the “robot” and an external object; *or*

h.2. The ability to exert a force of 250 N or more or a torque of 250 Nm or more and using titanium based alloys or “composite” “fibrous or filamentary materials” in their structural members;

i. Remotely controlled articulated manipulators “specially designed” or modified for use with submersible vehicles and having any of the following:

i.1. Systems which control the manipulator using information from sensors which measure any of the following:

i.1.a. Torque or force applied to an external object; *or*

i.1.b. Tactile sense between the manipulator and an external object; *or*

i.2. Controlled by proportional master-slave techniques or by using a dedicated computer and having 5 degrees of ‘freedom of movement’ or more;

Technical Note: *Only functions having proportional control using positional feedback or by using a dedicated computer are counted when determining the number of degrees of ‘freedom of movement’.*

j. Air independent power systems “specially designed” for underwater use, as follows:

j.1. Brayton or Rankine cycle engine air independent power systems having any of the following:

j.1.a. Chemical scrubber or absorber systems, “specially designed” to remove carbon dioxide, carbon monoxide and particulates from

recirculated engine exhaust;

j.1.b. Systems “specially designed” to use a monoatomic gas;

j.1.c. Devices or enclosures, “specially designed” for underwater noise reduction in frequencies below 10 kHz, or special mounting devices for shock mitigation; *or*

j.1.d. Systems having all of the following:

j.1.d.1. “Specially designed” to pressurize the products of reaction or for fuel reformation;

j.1.d.2. “Specially designed” to store the products of the reaction; *and*

j.1.d.3. “Specially designed” to discharge the products of the reaction against a pressure of 100 kPa or more;

j.2. Diesel cycle engine air independent systems having all of the following:

j.2.a. Chemical scrubber or absorber systems, “specially designed” to remove carbon dioxide, carbon monoxide and particulates from recirculated engine exhaust;

j.2.b. Systems “specially designed” to use a monoatomic gas;

j.2.c. Devices or enclosures, “specially designed” for underwater noise reduction in frequencies below 10 kHz, or special mounting devices for shock mitigation; *and*

j.2.d. “Specially designed” exhaust systems that do not exhaust continuously the products of combustion;

j.3. Fuel cell air independent power systems with an output exceeding 2 kW and having any of the following:

j.3.a. Devices or enclosures, “specially designed” for underwater noise reduction in frequencies below 10 kHz, or special mounting devices for shock mitigation; *or*

j.3.b. Systems having all of the following:

j.3.b.1. “Specially designed” to pressurize the products of reaction or for fuel reformation;

j.3.b.2. “Specially designed” to store the products of the reaction; *and*

j.3.b.3. “Specially designed” to discharge the products of the reaction against a pressure of 100 kPa or more;

j.4. Stirling cycle engine air independent power systems having all of the following:

j.4.a. Devices or enclosures, “specially designed” for underwater noise reduction in frequencies below 10 kHz, or special mounting devices for shock mitigation; *and*

j.4.b. “Specially designed” exhaust systems which discharge the products of combustion against a pressure of 100 kPa or more;

k. Skirts, seals and fingers, having any of the following:

k.1. Designed for cushion pressures of 3,830 Pa or more, operating in a significant wave height of 1.25 m (Sea State 3) or more and “specially designed” for surface effect vehicles (fully skirted variety) controlled by 8A001.f; *or*

k.2. Designed for cushion pressures of 6,224Pa or more, operating in a significant wave height of 3.25 m (Sea State 5) or more and “specially designed” for surface effect vehicles (rigid sidewalls) controlled by 8A001.g;

l. Lift fans rated at more than 400 kW and “specially designed” for surface effect vehicles controlled by 8A001.f or 8A001.g;

m. Fully submerged subcavitating or supercavitating hydrofoils, “specially designed” for vessels controlled by 8A001.h;

n. Active systems “specially designed” or modified to control automatically the sea-induced motion of vehicles or vessels, controlled by 8A001.f, 8A001.g, 8A001.h or 8A001.i;

o. Propellers, power transmission systems, power generation systems and noise reduction systems, as follows:

o.1. Water-screw propeller or power transmission systems, “specially designed” for surface effect vehicles (fully skirted or rigid sidewall variety), hydrofoils or ‘small waterplane area vessels’ controlled by 8A001.f, 8A001.g, 8A001.h or 8A001.i, as follows:

o.1.a. Supercavitating, super-ventilated, partially-submerged or surface piercing propellers, rated at more than 7.5 MW;

o.1.b. Contrarotating propeller systems rated at more than 15 MW;

o.1.c. Systems employing pre-swirl or post-swirl techniques, for smoothing the flow into a propeller;

o.1.d. Light-weight, high capacity (K factor exceeding 300) reduction gearing;

o.1.e. Power transmission shaft systems incorporating “composite” material “parts” or “components” and capable of transmitting more than 1 MW;

o.2. Water-screw propeller, power generation systems or transmission systems, designed for use on vessels, as follows:

o.2.a. Controllable-pitch propellers and hub assemblies, rated at more than 30 MW;

o.2.b. Internally liquid-cooled electric propulsion engines with a power output exceeding 2.5 MW;

o.2.c. “Superconductive” propulsion engines or permanent magnet electric propulsion engines, with a power output exceeding 0.1 MW;

o.2.d. Power transmission shaft systems incorporating “composite” material “parts” or “components” and capable of transmitting more than 2 MW;

o.2.e. Ventilated or base-ventilated propeller systems, rated at more than 2.5 MW;

o.3. Noise reduction systems designed for use on vessels of 1,000 tonnes displacement or more, as follows:

o.3.a. Systems that attenuate underwater noise at frequencies below 500 Hz and consist of compound acoustic mounts for the acoustic isolation of diesel engines, diesel generator sets, gas turbines, gas turbine generator sets, propulsion motors or propulsion reduction gears, “specially designed” for sound or vibration isolation and having an intermediate mass exceeding 30% of the equipment to be mounted;

o.3.b. ‘Active noise reduction or cancellation systems’ or magnetic bearings, “specially designed” for power transmission systems;

Technical Note: ‘Active noise reduction or cancellation systems’ incorporate electronic control systems capable of actively reducing equipment vibration by the generation of anti-noise or anti-vibration signals directly to the source.

p. Pumpjet propulsion systems having all of the following:

p.1. Power output exceeding 2.5 MW; and

p.2. Using divergent nozzle and flow conditioning vane techniques to improve propulsive efficiency or reduce propulsion-generated underwater-radiated noise;

q. Underwater swimming and diving equipment as follows;

q.1. Closed circuit rebreathers;

q.2. Semi-closed circuit rebreathers;

Note: 8A002.q does not control individual rebreathers for personal use when accompanying their users.

r. Diver deterrent acoustic systems “specially designed” or modified to disrupt divers and having a sound pressure level equal to or exceeding 190 dB (reference 1 µPa at 1 m) at frequencies of 200 Hz and below.

Note 1: 8A002.r does not apply to diver deterrent systems based on under-water-explosive devices, air guns or combustible sources.

Note 2: 8A002.r includes diver deterrent acoustic systems that use spark gap sources, also known as plasma sound sources.

8A018 Items on the Wassenaar Arrangement Munitions List.

License Requirements

Reason for Control: NS, AT, UN

Control(s)

*Country Chart
(See Supp. No.*

1 to part 738).

NS applies to entire entry NS Column 1

AT applies to entire entry AT Column 1

UN applies to entire entry See § 746.1(b) for
UN controls.

List Based License Exceptions (See Part 740
for a description of all license exceptions)

LVS: \$5000

GBS: N/A

CIV: N/A

List of Items Controlled

Related Controls: See also [8A002](#) and
[8A992](#).

Related Definitions: N/A

Items:

a. Closed and semi-closed circuit (rebreathing)
apparatus “specially designed” for military use,
and “specially designed” components for use in
the conversion of open-circuit apparatus to
military use;

b. Naval equipment, as follows:

b.1. Diesel engines of 1,500 hp and over
with rotary speed of 700 rpm or over “specially
designed” for submarines, and “specially
designed” components therefor;

b.2. Electric motors “specially designed” for
submarines, i.e., over 1,000 hp, quick reversing
type, liquid cooled, and totally enclosed, and
“specially designed” components therefor;

b.3. Nonmagnetic diesel engines, 50 hp and
over, specially designed for military purposes
with nonmagnetic content in excess of 75
percent of total mass and “specially designed”
components therefor;

b.4. Submarine and torpedo nets and
“specially designed” components therefor.

**8A992 Vessels, marine systems or equipment,
not controlled by 8A001, 8A002 or 8A018,
and “specially designed” “parts” and
“components” therefor, and marine boilers
and “parts” and “components,”
“accessories,” and “attachments” therefor
(see List of Items Controlled).**

License Requirements

Reason for Control: AT

Control(s)

*Country Chart
(See Supp. No.
1 to part 738).*

AT applies to entire entry

AT Column 1

UN applies to 8A992.1
and m

See § 746.1(b)
for UN controls

List Based License Exceptions (See Part 740
for a description of all license exceptions)

LVS: N/A

GBS: N/A

CIV: N/A

List of Items Controlled

Related Controls: See also [8A002](#) and
[8A018](#)

Related Definitions: N/A

Items:

a. Underwater vision systems, as follows:

a.1. Television systems (comprising
camera, lights, monitoring and signal
transmission equipment) having a limiting
resolution when measured in air of more than
500 lines and “specially designed” or modified
for remote operation with a submersible vehicle;

or

a.2. Underwater television cameras having a limiting resolution when measured in air of more than 700 lines;

Technical Note: Limiting resolution in television is a measure of horizontal resolution usually expressed in terms of the maximum number of lines per picture height discriminated on a test chart, using IEEE Standard 208/1960 or any equivalent standard.

b. Photographic still cameras “specially designed” or modified for underwater use, having a film format of 35 mm or larger, and having autofocus or remote focusing “specially designed” for underwater use;

c. Stroboscopic light systems, “specially designed” or modified for underwater use, capable of a light output energy of more than 300 J per flash;

d. Other underwater camera equipment, n.e.s.;

e. Other submersible systems, n.e.s.;

f. Vessels, n.e.s., including inflatable boats, and “specially designed” “parts” and “components” therefor, n.e.s.;

g. Marine engines (both inboard and outboard) and submarine engines, n.e.s.; and “specially designed” “parts” and “components” therefor, n.e.s.;

h. Other self-contained underwater breathing apparatus (scuba gear) and related equipment, n.e.s.;

i. Life jackets, inflation cartridges, compasses, wetsuits, masks, fins, weight belts, and dive computers;

j. Underwater lights and propulsion equipment;

k. Air compressors and filtration systems “specially designed” for filling air cylinders.

l. Marine boilers designed to have any of the following characteristics:

1.1. Heat release rate (at maximum rating) equal to or in excess of 190,000 BTU per hour per cubic foot of furnace volume; or

1.2. Ratio of steam generated in pounds per hour (at maximum rating) to the dry weight of the boiler in pounds equal to or in excess of 0.83.

m. Major “components,” “accessories,” and “attachments” for marine boilers described in 8A992.1.

B. TEST, INSPECTION AND “PRODUCTION EQUIPMENT”

8B001 Water tunnels having a background noise of less than 100 dB (reference 1 μ Pa, 1 Hz) in the frequency range from 0 to 500 Hz and designed for measuring acoustic fields generated by a hydro-flow around propulsion system models.

License Requirements

Reason for Control: NS, AT

<i>Control(s)</i>	<i>Country Chart</i> (See Supp. No. 1 to part 738).
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NS applies to entire entry	NS Column 2
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AT applies to entire entry	AT Column 1
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List Based License Exceptions (See Part 740 for a description of all license exceptions)

LVS: \$3000
 GBS: N/A
 CIV: N/A

List of Items Controlled

Related Controls: N/A
Related Definitions: N/A
Items:

The list of items controlled is contained in the ECCN heading.

C. “MATERIALS”

8C001 ‘Syntactic foam’ designed for underwater use and having all of the following (see List of Items Controlled).

License Requirements

Reason for Control: NS, AT

<i>Control(s)</i>	<i>Country Chart (See Supp. No. 1 to part 738).</i>
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NS applies to entire entry	NS Column 2
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AT applies to entire entry	AT Column 1
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List Based License Exceptions (See Part 740 for a description of all license exceptions)

LVS: N/A
 GBS: N/A
 CIV: N/A

List of Items Controlled

Related Controls: See also [8A002.a.4.](#)
Related Definition: ‘Syntactic foam’ consists of hollow spheres of plastic or glass embedded in a resin matrix.

Items:

- a. Designed for marine depths exceeding 1,000 m; and
- b. A density less than 561 kg/m³.

D. “SOFTWARE”

8D001 “Software” “specially designed” or modified for the “development”, “production” or “use” of equipment or materials, controlled by 8A (except 8A018 or 8A992), 8B or 8C.

License Requirements

Reason for Control: NS, AT

<i>Control(s)</i>	<i>Country Chart (See Supp. No. 1 to part 738).</i>
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NS applies to entire entry	NS Column 1
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AT applies to entire entry	AT Column 1
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Reporting Requirements

See § 743.1 of the EAR for reporting requirements for exports under License Exceptions, Special Comprehensive Licenses, and Validated End-User authorizations.

List Based License Exceptions (See Part 740 for a description of all license exceptions)

CIV: N/A
 TSR: Yes, except for exports or reexports to destinations outside of those countries listed in Country Group A:5 (See Supplement No. 1 to part 740 of the EAR) of “software” “specially designed” for the

“development” or “production” of equipment controlled by 8A001.b, 8A001.d, or 8A002.o.3.b.

Special Conditions for STA

STA: License Exception STA may not be used to ship or transmit “software” “specially designed” for the “development” or “production” of equipment in 8A001.b, 8A001.c, 8A001.d, 8A002.b, 8A002.h, 8A002.j, 8A002.o.3 or 8A002.p to any of the destinations listed in Country Group A:6 (See Supplement No.1 to part 740 of the EAR).

List of Items Controlled

Related Controls: N/A
Related Definitions: N/A
Items:

The list of items controlled is contained in the ECCN heading.

8D002 Specific “software” “specially designed” or modified for the “development”, “production”, repair, overhaul or refurbishing (re-machining) of propellers “specially designed” for underwater noise reduction.

License Requirements

Reason for Control: NS, AT

<i>Control(s)</i>	<i>Country Chart (See Supp. No. 1 to part 738).</i>
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NS applies to entire entry	NS Column 1
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AT applies to entire entry	AT Column 1
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Reporting Requirements

See § 743.1 of the EAR for reporting

requirements for exports under License Exceptions, Special Comprehensive Licenses, and Validated End-User authorizations.

List Based License Exceptions (See Part 740 for a description of all license exceptions)

CIV: N/A
 TSR: Yes

Special Conditions for STA

STA: License Exception STA may not be used to ship or transmit any software in this entry to any of the destinations listed in Country Group A:6 (See Supplement No.1 to part 740 of the EAR).

List of Items Controlled

Related Controls: See also [8D992](#)
Related Definitions: N/A
Items:

The list of items controlled is contained in the ECCN heading.

8D992 “Software” “specially designed” or modified for the “development”, “production” or “use” of equipment controlled by 8A992.

License Requirements

Reason for Control: AT

<i>Control(s)</i>	<i>Country Chart (See Supp. No. 1 to part 738).</i>
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AT applies to entire entry	AT Column 1
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List Based License Exceptions (See Part 740 for a description of all license exceptions)

CIV: N/A

TSR: N/A

List of Items Controlled*Related Controls:* N/A*Related Definitions:* N/A*Items:*

The list of items controlled is contained in the ECCN heading.

E. “TECHNOLOGY”

8E001 “Technology” according to the General Technology Note for the “development” or “production” of equipment or materials, controlled by 8A (except 8A018 or 8A992), 8B or 8C.

License Requirements*Reason for Control:* NS, AT

<i>Control(s)</i>	<i>Country Chart</i> (See Supp. No. 1 to part 738).
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NS applies to entire entry	NS Column 1
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AT applies to entire entry	AT Column 1
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Reporting Requirements

See § 743.1 of the EAR for reporting requirements for exports under License Exceptions, Special Comprehensive Licenses, and Validated End-User authorizations.

List Based License Exceptions (See Part 740 for a description of all license exceptions)

CIV: N/A

TSR: Yes, except for exports or reexport to destinations outside of those countries listed in Country Group A:5 (Supplement No. 1 to part 740 of the EAR) of “technology” for items controlled by 8A001.b, 8A001.d or 8A002.o.3.b.

Special Conditions for STA

STA: License Exception STA may not be used to ship or transmit “technology” according to the General Technology Note for the “development” or “production” of equipment specified by 8A001.b, 8A001.c, 8A001.d, 8A002.b, 8A002.h, 8A002.j, 8A002.o.3 or 8A002.p to any of the destinations listed in Country Group A:6 (See Supplement No.1 to part 740 of the EAR).

List of Items Controlled*Related Controls:* N/A*Related Definitions:* N/A*Items:*

The list of items controlled is contained in the ECCN heading.

8E002 Other “technology” as follows (see List of Items Controlled).

License Requirements*Reason for Control:* NS, AT

<i>Control(s)</i>	<i>Country Chart</i> (See Supp. No. 1 to part 738).
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NS applies to entire entry	NS Column 1
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AT applies to entire entry	AT Column 1
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Reporting Requirements

See § 743.1 of the EAR for reporting requirements for exports under License Exceptions, Special Comprehensive Licenses, and Validated End-User authorizations.

List Based License Exceptions (See Part 740 for a description of all license exceptions)

CIV: N/A
TSR: Yes

Special Conditions for STA

STA: License Exception STA may not be used to ship or transmit technology in 8E002.a to any of the destinations listed in Country Group A:6 (See Supplement No.1 to part 740 of the EAR).

List of Items Controlled

Related Controls: See also [8E992](#)
Related Definitions: N/A
Items:

- a. “Technology” for the “development”, “production”, repair, overhaul or refurbishing (re-machining) of propellers “specially designed” for underwater noise reduction;
- b. “Technology” for the overhaul or refurbishing of equipment controlled by 8A001, 8A002.b, 8A002.j, 8A002.o or 8A002.p.

8E992 “Technology” for the “development”,

“production” or “use” of equipment controlled by 8A992.

License Requirements

Reason for Control: AT

<i>Control(s)</i>	<i>Country Chart</i> (See <i>Supp. No. 1</i> to part 738).
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AT applies to entire entry	AT Column 1
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List Based License Exceptions (See Part 740 for a description of all license exceptions)

CIV: N/A
TSR: N/A

List of Items Controlled

Related Controls: N/A
Related Definitions: N/A
Items:

The list of items controlled is contained in the ECCN heading.

EAR99 Items subject to the EAR that are *not* elsewhere specified in this CCL Category *or* in any other category in the CCL are designated by the number **EAR99**.